



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<b>(21) International Application Number:</b> PCT/US00/01772 <b>(22) International Filing Date:</b> 26 January 2000 (26.01.00) <b>(30) Priority Data:</b> 60/117,769                      27 January 1999 (27.01.99)                      US 60/144,783                      20 July 1999 (20.07.99)                                US 60/156,094                      24 September 1999 (24.09.99)                        US <b>(71) Applicant (for all designated States except US):</b> E.I. DU PONT DE NEMOURS AND COMPANY [US/US]; 1007 Market Street, Wilmington, DE 19898 (US). <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> <u>FADER</u> , Gary, M. [US/US]; 1000 Woods Lane, Landenberg, PA 19350 (US). <u>JUNG</u> , Woosuk [KR/US]; 109-D, Congressional Drive, Greenville, DE 19807 (US). <u>MCGONIGLE</u> , Brian [US/US]; 115A Senatorial Drive, Wilmington, DE 19806 (US). <u>ODELL</u> , Joan, T. [US/US]; P.O. Box 826, Unionville, PA 19375 (US). <u>YU</u> , Xiaodan [CN/US]; Apartment D, 18 Presidential Drive, Wilmington, DE 19807 (US). <b>(74) Agent:</b> BEARDELL, Lori, Y.; E.I. du Pont de Nemours and Company, Legal Patent Records Center, 1007 Market Street, Wilmington, DE 19898 (US).		<b>(81) Designated States:</b> AE, AL, AU, BA, BB, BG, BR, CA, CN, CR, CU, CZ, DM, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i>
<b>(54) Title:</b> NUCLEIC ACID SEQUENCES ENCODING ISOFLAVONE SYNTHASE		
<b>(57) Abstract</b> <p>This invention relates to an isolated nucleic acid sequence encoding isoflavone synthase. The invention also relates to the construction of chimeric sequences encoding all or a substantial portion of the enzymes, in sense or antisense orientation, wherein expression of the chimeric sequence results in production of altered levels of the enzyme in a transformed host cell.</p>		